Index of Authors

ABBOTT, E. M. and HOLMES, P. H. The influence of dietary protein on the resistance of sheep to *Haemonchus contortus*, xvi

ABDEL-HAFEZ, S. K., SHBEEB, I. and ISMAIL, N. S. Sero-epidemiological studies on toxoplasmosis in women with habitual abortion and in university students in Northern Jordan, liv

ABO-SHEHADA, M. N. Some factors affecting the migration of larval *Toxocara canis* in mice, lxxiv

AL-ADAY, N. K. M. The course of *Plasmodium vinckei vinckei* infections in mice fed on diets containing known amounts of protein, xv

AL-ADAY, N. K. M. The effect of obesity on *Plasmodium vinckei vinckei* infection in mice, xxv

ALANI, A. J. and HERBERT, I. V. *Theileria recondita* transmitted by *Haemaphysalis punctata* (Canestrini and Fanzago, 1877) to sheep on the Lleŷn Peninsula, North Wales, xvii

ALLEN, K. M. A comparative study of the nutrition and gastrodermal ultrastructure of some polystomatid monogeneans, xxxviii

ASH, C. P. J. and CROMPTON, D. W. T. Pathogenicity of *Nippostrongylus*: disturbances in host-protein metabolism, iv

ASH, C. P. J., CROMPTON, D. W. T. and LUNN, P. G. Metabolic responses of rats to *Nippostrongylus*, xxiv

ARME, C. *See* HOOLE, D.

ARME, C. *See* RICHARDS, K. SYLVIA.

BAILEY, M., KENT, J., MARTIN, S. C., BLACKMORE, P. J. and SOULSBY, E. J. L. Diagnosis of infection with *Strongylus vulgaris* in horses, xvii

BARKER, ROSALIND J. *See* CANNING, ELIZABETH U.

BARRETT, J. *See* WALKER, R. W.

BARRETT, N. J. and SMYTH, J. D. Observations on the structure and ultrastructure of sperm development in *Echinococcus multilocularis*, both *in vitro* and *in vivo*, li

BEHNKE, J. M., PRITCHARD, D. I. and WILLIAMS, D. J. Evasion of host immunity by *Nematospiroides dubius*. I. The role of primary infection serum and IgG_1, xiii

BELOSEVIC, M. and FAUBERT, G. M. Temporal study of acquired resistance in infections of mice with *Giardia muris*, 517

BENNETT, C. E. Responses of the tegument of *Fasciola hepatica* to immune and hyperimmune sera *in vitro*, lxix

BENNETT, J. L. *See* DEPENBUSCH, J. W.

BICKLE, Q. D. *See* MASTIN, AVIS J.

BIGGIN, J. G., LEE, D. L., WEATHERLEY, A. and MILL, P. J. The effect of *Nippostrongylus brasiliensis* on muscular movements of isolated rat intestine, ix

BLAINEY, L. J. *See* HOWELLS, R. E.

BOLTZ, R. C. *See* SCHMATZ, D. M.

BOWEN, D. H. and TOPHAM, M. A. *Diplostomum phoxini* in the mouse: a possible model of an immune response against an intestinal lumen-dwelling trematode, xi

BRANFORD WHITE, C. J., HIPKISS, J. B. and FRAZER, A. The partial characterization of a Ca^{2+}-dependent activator of 3′5 cyclic nucleotide phosphodiesterase from *Hymenolepis diminuta*, lxxii

BRAY, P. G. *See* HOWELLS, R. E.

BRAZELEY, E., FRY, M. and JENKINS, D. C. Mitochondrial electron transport in *Ascaridia galli* (Nematoda), xxii

BRETT, SARA J. Immunodepression in *Giardia muris* and *Spironucleus muris* infections in mice, 507

BRIDGES, J. F., PRATTEN, M. K., HOOLE, D., WEBSTER, P. and ARME, C. Cellular response to *Echinococcus granulosus*, xix

BRINDLEY, P. J. and DOBSON, C. Genetic control of liability to infection with *Nematospiroides dubius* in mice: direct and correlated responses to selection of mice for faecal parasite egg count, 113

BROWN, A. F. The determination of species in the Acanthocephala by the copulatory bursa?, xxxiii

BROWN, H. C., PEREGRINE, A. S., HOLMES, P. H., MACASKILL, J. A., JENNINGS, F. W. and URQUHART, G. M. Some factors influencing the replication rate of *Trypanosoma brucei* in experimental mice, xlix

BURDEN, D. J. and BLAND, A. P. *Fasciola hepatica*: the fate of challenge flukes in naive and previously infected rats and cattle, lxx

BURT, M. D. B., JARECKA, L. and MACKINNON, B. M. Developmental morphology of *Haplobothrium globuliforme* (Cestoda) procercoids from *Macrocyclops* sp. using electron microscopy, lii

BURT, M. D. B. *See* PIKE, A. W.

CANNING, ELIZABETH U., BARKER, ROSALIND J., HAMMOND, JILL C. and NICHOLAS, J. P., *Unikaryon slaptonleyi* sp.nov. (Microspora: Unikaryonidae) isolated from echinostome and strigein larvae from *Lymnaea peregra*: observations on its morphology, transmission and pathogenicity, 175

CAPALDO, J. and COOMBS, G. H. New approaches to the chemotherapy of Leishmaniasis, xli

CARLOW, C. K. S. and BIANCO, A. E. Resistance to *Onchocerca* microfilariae in mice: aspects of the humoral and cellular immune response, xxxvii

CARROLL, S. M., GROVE, D. I., DAWKINS, H. J. S., MITCHELL, G. F. and WHITTEN, L. K. Infections with a Malaysian dog strain of *Ancylostoma ceylanicum* in outbred, inbred and immunocompromised mice, 229

CATCHPOLE, JANET. *See* GREGORY, M. W.

CHERNIN, J. and MCLAREN, DIANE J. The pathology induced in laboratory rats by metacestodes of *Taenia crassiceps* and *Mesocestoides corti* (Cestoda), 279

CLARKE, A. J. and PERRY, R. N. The induction of permeability in egg-shells of *Ascaris suum* prior to hatching, xxiv

COADWELL, W. J., WARD, P. F. V., GREENWOOD, C. and MUNN, E. A. Changes in carbohydrate levels in *Haemonchus contortus* during *in vitro* studies, xxiii

COMLEY, J. C. W., JAFFE, J. J. and SANI, B. P. The uptake and transport of vitamin A by filarial parasites, lvii

COOPER, J. E. *See* MOLYNEUX, D. H.

COOP, R. L., ANGUS, K. W., HUTCHISON, G. and WRIGHT, S. *Trichostrongylus colubriformis* infection in lambs: effect of anthelmintic treatment on growth rate and wool production, v

CORDINGLEY, J. S., TAYLOR, D. W. and BUTTERWORTH, A. E. Antigen genes of *Schistosoma mansoni* cloned in *E. coli* recombinant plasmids, ii

CORNELISSEN, A. W. C. A. and WALLIKER, D. Cytochemical detection of specific DNA sequences in *Plasmodium*, lxv

COURT, J. P. and LEES, GERALDINE M. *In vitro* cultivation of *Brugia pahangi* in the presence of dog kidney cells and its application to the development of an antifilarial drug assay, lxxi

COX, D. A., ROSS, G., DIXON, J. B. and JENKINS, P. Lymphoid responses in murine echinococcosis, lx

COX, J. and JOYCE, P. A study of the effectiveness of free and liposomally-entrapped rafoxanide against *Fasciola hepatica* in mice, xxvii

CRAIG, P. S. Circulating antigens in larval taeniid infections in mice, rabbits and man, lix

CROMPTON, D. W. T. and KEYMER, A. E. Explaining over-dispersion: *Moniliformis* and rats, xliv

CROMPTON, D. W. T., WARD, P. F. V. and COADWELL, W. J. Metabolism of L-serine by *Moniliformis dubius in vitro*, xxiii

CROMPTON, D. W. T. *See* KEYMER, ANNE.

CROWE, J. S., ROSS, C. A., LUCKINS, A. G., BARRY, J. D. and VICKERMAN, K. Identification of total metacyclic variable antigen repertoire of a *Trypanosoma congolense* stock, xlix

DALTON, J. P., KILTY, C. G. and JOYCE, P. Surface proteins/glycoproteins of the liver fluke *Fasciola hepatica* from rats, i

DAVIES, MARY J., ROSS, A. M. and GUTTERIDGE, W. E. The enzymes of purine salvage in *Trypanosoma cruzi*, *Trypanosoma brucei* and *Leishmania mexicana*, 211

DAVIES, T. W. *Schistosoma mansoni*: the structure and elemental composition of pre-acetabular penetration gland cell secretion in pre-emergent cercariae, 55

DAWKINS, H. J. S. *See* CARROLL, S. M.

DENHAM, D. A. *See* MAIZELS, R. M.
DEPENBUSCH, J. W., THOMPSON, D. P., PAX, R. A. and BENNETT, J. L. Tegumental disruption with Triton X-100 and its effects on longitudinal muscle function in male *Schistosoma mansoni*, 61
DIESFELD, H. J. *See* RUPPEL, A.
DLUZEWSKI, A. R., RANGACHARI, K., WILSON, R. J. M. and GRATZER, W. B. Is ATP the only cytoplasmic requirement of the red cell for invasion by malaria parasites?, lxv
DLUZEWSKI, A. R., RANGACHARI, K., WILSON, R. J. M. and GRATZER, W. B. Properties of red cell ghost preparations susceptible to invasion by malaria parasites, 429
DOBSON, A. P. The population dynamics of competing species of macroparasites, xliii
DOBSON, C. *See* BRINDLEY, P. J.
DOY, T. G. and HUGHES, D. L. Site of resistance to reinfection with *Fasciola hepatica* in calves, lxx
DUPRE, R. K. *See* UGLEM, G. L.

EARLE, C. A. Comparative biochemistry of schistosomes, lxii
EDWARDS, J. A. and WHITFIELD, P. J. Development stages of the parasitic copepod, *Lernaecera branchialis* on the flounder, *Platichthys flesus*, xxxii
ELKINS, D. B. and ELKINS, MELISSA H. Identification of enteropathogenic agents in stools of children of migrant farmworkers in rural North Carolina, lii
ESPIN, P. M. J. The estimation of density-dependent constraints on survival and fecundity in the cestode *Raillietina cesticillus*, xliii
EVANS, N. A. and GORDON, D. M. Experimental studies on the transmission dynamics of the cercariae of *Echinoparyphium recurvatum* (Digenea: Echinostomatidae), 167
EVANS, N. A. Quantitative aspects of the host-parasite relationship between *Bulinus natalensis* and *Schistosoma margrebowiei*, xliii

FACER, C. A. *Plasmodium falciparum* invasion and red cell glycophorins A, B and C, lxv
FAUBERT, G. M. *See* BELOSEVIC, M.
FENWICK, P., HUBER, CYNTHIA, MACDONALD, D., AGGETT, P. J. and WAKELIN, D. The effect of zinc repletion on *Trichinella spiralis* infection of rats, xvi
FOX, P. C. and ATKINSON, H. J. Isozymic differentiation of *Globodera rostochiensis* and *G. pallida* pathotypes, xxxi
FRYER, S. E. Laboratory studies on host-parasite compatibility of *Schistosoma haematobium* and species of *Bulinus* from Northern Nigeria, liii
FRY, M. and JENKINS, D. C. Mitochondrial electron transport in life-cycle stages of *Nippostrongylus brasiliensis* and *Ascaridia galli*, xxii

GHAFOOR, S. Y., LEE, W. R., SMITH, R. QUINN and GIRDWOOD, R. W. A. Experimental murine ocular toxocariasis, iv
GIBBONS, L. M. SEM study of the species of the genus *Strongylus*, xxxv
GIBSON, D. I. Some comments on the systematics of the Aspidogastrea, xiii
GILBERT, R. J., KLEIN, R. A., ANGUS, J. M. and REID, D. Some antitrypanosomal and biochemical actions of bromoacetyl-L-carnitine against *Trypanosoma brucei brucei*, xli
GORDON, D. M. *See* EVANS, N. A.
GRATZER, W. B. *See* DLUZEWSKI, A. R.
GREENWOOD, C. A. *See* MUNN, E. A.
GREGORY, M. W., CATCHPOLE, JANET, JOYNER, L. P. and PARKER, B. N. J. Observations on the epidemiology of coccidial infections in sheep under varying conditions of intensive husbandry including chemoprophylaxis with monensin, 421
GREGORY, M. W., CATCHPOLE, JANET, NOLAN, ANN and HEBERT, NANCY. Passive immunity to coccidiosis in lambs, viii
GRENFELL, B. T. and SMITH, G. The population biology of *Ostertagia ostertagi*: an economically important parasite of first-year grazing calves, xlii
GROVE, D. I. *See* CARROLL, S. M.
GUNN, A. and CANNING, E. U. *Nosema helminthorum* hyperparasitic in *Moniezia expansa*: two parasites or one dimorphic species, v
GUTTERIDGE, W. E. *See* DAVIES, MARY J.

HALE, C. *See* NEAL, R. A.
HALE, R. D. and MILLER, P. G. G. Glycolysis in the protozoan *Crithidia fasciculata*, xxv
HALL, D. W. *See* LORD, J. C.
HALTON, D. W. and MCCRAE, J. M. Morphogenesis of the tegument and gut of *Fellodistomum fellis* (Trematoda), lvii
HAMMOND, JILL C. *See* CANNING, ELIZABETH U.
HANNA, R. E. B. and TRUDGETT, A. G. *Fasciola hepatica*: use of monoclonal antibodies to characterize and localize somatic antigens, i
HARLEY, J. P. *See* UGLEM, G. L.
HARRIS, A. L. and WALKEY, M. Interspecific competition in trematode larval stages, xxviii
HARRIS, E. A. Helminths in danger: the forgotten few, xxix
HARRIS, P. D. Observations on the biology of *Lernentoma asellina* (Crustacea, Copepoda) from the gills of *Trigla lucerna*, xxix
HARRIS, P. D. The host specificity of the monogenean *Gyrodactylus gasterostei*, from the three-spined stickleback, xi
HARRIS, P. D. The morphology and life-cycle of the oviparous *Oögyrodactylus farlowellae* gen. et sp.nov. (Monogenea, Gyrodactylidea), 405
HART, S., DAVIES, D. H. and LAWSON, R. The effect of humoral components from fish on spore germination in isolates of the fungus *Saprolegnia diclina*, xxi
HAY, J., AITKEN, P. P. and HUTCHINSON, W. M. Behavioural abnormalities accompanying *Toxocara canis* infection in mice, lxxiii
HAY, J., DUTTON, G. N., LEE, W. R. and HUTCHINSON, W. M. Clinical and histopathological features of congenital murine toxoplasmosis, iii
HAY, J., HAIR, D. M., AITKEN, P. P. and HUTCHINSON, W. M. The effect of congenital *Toxoplasma* infection on mouse activity and relative preference for exposed areas over a series of trials, lxxiii
HIGGS, S. and NOWELL, F. Infection patterns of *Eimeria hungaryensis* in the woodmouse *Apodemus sylvaticus*, vi
HIRAI, K. *See* SHIWAKU, K.
HOLLAND, C. Interspecific effects between *Hymenolepis diminuta*, *Moniliformis dubius* and *Nippostrongylus brasiliensis* in rats, xlvii
HOLMES, S. D. and FAIRWEATHER, I. Fasciolicidal action: neuropharmacological, metabolic or ionic?, xlvi
HOLT, M. E., LLOYD, S. and SOULSBY, E. J. L. Migration of lymphoblasts in mice infected with *Nematospiroides dubius*, xiii
HOOLE, D. and ARME, C. Fish leucocyte culture and parasite interaction, xxi
HOOLE, D. and ARME, C. The tissue response of cyprinid fish to cultured plerocercoids of *Ligula intestinalis*, lii
HOOLE, D. and ARME, C. Ultrastructural studies on the cellular response of fish hosts following experimental infection with the plerocercoid of *Ligula intestinalis* (Cestoda: Pseudophyllidea), 139
HOPKINS, C. A. and BARR, I. F. Protection against a tapeworm in the intestine when the immune system is ineffective, lxi
HOWELLS, R. E. and BLAINEY, L. J. The moulting process and the phenomenon of intermoult growth in the filarial nematode *Brugia pahangi*, 493
HOWELLS, R. E., MENDIS, A. M. and BRAY, P. G. The mode of action of suramin on the filarial worm *Brugia pahangi*, 29
HURD, H. and ARME, C. The pathophysiology of *Hymenolepis diminuta* infections in *Tenebrio molitor*, lxviii
HYSLOP, E. J. and CHUBB, J. C. *Schistocephalus pungitii* Dubinia, 1959 (Cestoda) in Britain, xxx

IBARRA, O. F. and JENKINS, D. C. An *in vitro* screen for the detection of compounds effective against immature *Fasciola hepatica*, xlvi
IRWIN, S. W. B., MCKERR, G., JUDGE, BRENDA C. and MORAN, I. A light and electron microscope study of metacercarial excystment in *Himasthla leptosoma* (Trematoda: Echinostomidae), xxxiv
ISMAIL, N. S. and ABDEL-HAFEZ, S. K. Larval stages of digenetic trematodes of *Melanopsis praemorsa* (Linnaeus, 1758) snail from Yarmouk River, Jordan, vii

JACKSON, HELEN C. The effects of host starvation on egg production by a blood feeding monogenean, xv

JANSE, C. J., MONS, B., CROON, J. J. A. B. and VAN DER KAAY, H. J. *Plasmodium berghei*: aspects of gametocytogenesis in a continuous *in vitro* culture, xxxviii

JEFFERIES, D. and MOLYNEUX, D. H. Feeding behaviour of the mite *Ornithonyssus bacoti* infected with *Litomosoides carinii*, lxiv

JEFFERS, T. K. *See* SHIRLEY, M. W.

JEFFS, S. A. and ARME, C. Protein synthesis by the cysticercoid of *Hymenolepis diminuta*, xxiii

JENKINS, D. C. and RAPSON, E. B. Development of *Trichostrongylus colubriformis in vitro*, lxxi

JENKINS, PAULA, DIXON, J. B., COX, D. A. and ROSS, G. Changes in lymphoid cell behaviour on exposure to *Echinococcus granulosus*, lx

JONES, A. Tegumentary papillae in paramphistomes of the sub-families Gastrodiscinae and Choerocotyloidinae, xxxv

JOYNER, L. P. *See* GREGORY, M. W.

KATAAHA, P. K., FACER, CHRISTINE A., MILANI, M., STIERLE, H. and HOLBOROW, E. J. Stimulation of autoantibody production in normal blood lymphocyte cultures by malaria culture supernatants, lv

KEYMER, A. E. and CROMPTON, D. W. T. Parasite-induced learned taste aversion, lxxii

KEYMER, ANNE, CROMPTON, D. W. T. and WALTERS, D. E. Parasite population biology and host nutrition: dietary fructose and *Moniliformis* (Acanthocephala), 265

KHALIL, L. F. A study of a dioecious cestode of the genus Gyrocoelia from a spurwing plover in the Sudan, xxxv

KHALIL, L. F. The effect of the environment and animal husbandry on the helminth parasites of domestic and game animals in the Jonglei area of Southern Sudan, xviii

VAN KNAPEN, F. and FRANCHIMONT, J. H. Detection of specific anti- *T. spiralis* IgM antibodies in humans and experimentally infected monkeys, liii

KONDO, ASAMI, *See* MAKI, JUN.

KÖRTING, W. Myxozoa as causative agents of swimbladder inflammation (SBI) in carp fry?, lxi

KÖRTING, W. and WALKEY, M. Pyruvate kinase and phosphoenol pyruvate carboxykinase from fish tapeworms, lxiii

LAST, C., SABAH, A. and DOENHOFF, M. The effects of chemotherapy on resistance in *Schistosoma mansoni*–infected mice, xlv

LAWSON, J. RUTH and WILSON, R. A. The relationship between the age of *Schistosoma mansoni* cercariae and their ability to penetrate and infect the mammalian host, 481

LEE, D. L., NICHOLLS, C. D. and SHARPE, M. J. Scanning electron microscopy of biopsy specimens of sheep abomasum infected with *Haemonchus contortus*, xxvi

LEITCH, B. and PROBERT, A. J. The effect of praziquantel on the ultrastructure of *Schistosoma haematobium*, lviii

LENSEN, A. H. W. *See* PONNUDURAI, T.

LEWIS, D. and KING, D. F. The systemic acaricidal activity of a novel sulphonamide, xlvii

LOKER, ERIC S. A comparative study of the life-histories of mammalian schistosomes, 343

LONG, P. L. *See* SHIRLEY, M. W.

LORD, J. C. and HALL, D. W. Sporulation of *Amblyospora* (Microspora) in female *Culex salinarius*: induction by 20-hydroxyecdysone, 377

MACKINNON, B. M., JARECKA, L. and BURT, M. D. B. Ultrastructure of the spermatozoa of *Haplobothrium globuliforme* (Cestoda: Haplobothriidae) from the bowfin, *Amia calva*, li

MAIZELS, R. M., KENNEDY, M. W., MEGHJI, M. and SMITH, H. V. Carbohydrate and protein determinants of the surface and secreted antigens of *Toxocara canis* infective larvae, xlv

MAIZELS, R. M., PARTONO, F., OEMIJATI, SRI, DENHAM, D. A. and OGILVIE, BRIDGET M. Cross-reactive surface antigens on three stages of *Brugia malayi*, *B. pahangi* and *B. timori*, 249

MAKI, JUN and YANAGISAWA, TOSHIO. A comparison of the effects of flubendazole and thiabendazole on the larvae of *Angiostrongylus cantonensis*, *Trichinella spiralis*, *Diphyllobothrium erinacei* and *Hymenolepis nana* in mice, 525

MAKI, JUN, KONDO, ASAMI and YANAGISAWA, TOSHIO. Effects of alcoholic extract from Ma-Klua (*Diospyros mollis*) on adults and larvae of the dwarf tapeworm, *Hymenolepis nana* in mice and on the infectivity of the eggs, 103

MALONEY, N. A. and WEBBE, G. The host–parasite relationship of *Schistosoma japonicum* in CBA mice, 327

MARCOGLIESE, D. *See* MCLAUGHLIN, J. D.

MARTIN, JEAN, WAINWRIGHT, S. M. and EVANS, J. The effect of host diet on the fecundity of *Nippostrongylus brasiliensis*, xv

MASTIN, A. J. and BICKLE, Q. D. An investigation into the fate of schistosomula of *Schistosoma mansoni* in drug-treated mice, xxxix

MASTIN, AVIS J., BICKLE, Q. D. and WILSON, R. A. *Schistosoma mansoni*: migration and attrition of irradiated and challenge schistosomula in the mouse, 87

MATHERS, P. D. A. and LEWIS, J. W. The influence of the microbial environment on the development and establishment of *Nematospiroides dubius*, x

MCCULLOUGH, J. S. and FAIRWEATHER, I. The occurrence of two morphotypes of *Trilocularia acanthiaevulgaris* (Cestoda: Tetraphyllidea) in the gut of its definitive host *Squalus acanthias*, xii

MCDONALD, V. A comparative study of the life-cycles of virulent and avirulent *Eimeria mitis*, xxvi

MCHUGH, S. M. and WALKER, SONJA. *Schistosoma mansoni*: evidence for delayed migration of schistosomula in mice harbouring single sex infections, xviii

MCKERR, G. and ALLEN, J. M. Structural organization of proboscide muscle in *Grillotia erinaceus* (Cestoda: Trypanorhyncha), xxxiv

MCLAREN, DIANE J. *See* CHERNIN, J.

MCLAREN, DIANE J. *See* PEARCE, E. J.

MCLAUGHLIN, J. D. and MARCOGLIESE, D. The migration, growth and development of *Cyclocoelum oculeum* (Kossack, 1911) (Trematoda: Cyclocoelidae) in *Fulica americana* (Gm.), 239

MCLEAN, S. A., PEARSON, C. D. and PHILLIPS, R. S. Further studies on clones of recrudescent populations of *Plasmodium chabaudi*, xxi

MENDIS, A. M. *See* HOWELLS, R. E.

MERCER, J. G. Protein and carbohydrate synthesis rates of adult *Schistosoma mansoni in vitro*, lxii

MEUWISSEN, J. H. E. TH. *See* PONNUDURAI, T.

MILLER, E. N., ALLAN, L. M. and TURNER, M. J. Analysis of the antigenic determinants of a *Trypanosoma brucei* variant surface glycoprotein using monoclonal antibodies, l

MOHAMMED TALIB, A. R., CONNAN, R. M., DUFFUS, W. P. H. and LAMMAS, D. A. *Dictylcaulus filaria*: in lung and mammary gland of sheep. The cellular response associated with *in vivo* killing of worms, lvi

MITCHELL, G. F. *See* CARROLL, S. M.

MOLYNEUX, D. H., COOPER, J. E. and SMITH, W. J. Studies on the pathology of an avian trypanosome (*T. bouffardi*) infection in experimentally infected canaries, 49

MOTTRAM, J. C. and COOMBS, G. H. Catabolic enzymes of *Leishmania*: differences between amastigotes and promastigotes, xl

MOTTRAM, J. C. and COOMBS, G. H. How do antileishmanial antimonials act?, xxviii

MUNN, E. A. and GREENWOOD, C. A. Endotube–brush border complexes dissected from the intestines of *Haemonchus contortus* and *Ancylostoma caninum*, 129

MURRAY, P. K. *See* SCHMATZ, D. M.

MURRILLS, R. J. Selected aspects of the ultrastructure of the miracidium of *Haplometra cylindracea*, xxxviii

NEAL, R. A. and HALE, C. A comparative study of susceptibility of inbred and outbred mouse strains compared with hamsters to infection with New World cutaneous leishmaniases, 7

NEWBOLD, C. I., BOYLE, D. B., SCHRYER, M., WALLIKER, D. and BROWN, K. N. Interstrain antigenic diversity and homology in a high molecular weight polypeptide involved in the induction of protective immunity to malaria, lv

NICHOLAS, J. P. *See* CANNING, ELIZABETH U.

OEMIJATI, SRI, *See* MAIZELS, R. M.
OGBOGU, V. C. and STOREY, D. M. Comparative study of the encapsulation of *Litomosoides carinii* in cotton rats and white rats, xx
OGBOGU, V. C. and STOREY, D. M. Ultrastructural aspects of the dynamics of encapsulation of *Litomosoides carinii* in cotton rat filariasis, lvi
OGILVIE, BRIDGET M. *See* MAIZELS, R. M.
OLDHAM, G. Resistance in rats to *Fasciola hepatica* infection following sensitization with fluke antigens, lxx
OVERDULVE, J. P., WEIJERS, P. and BORST, P. A cruciform-inducing 10 kb palindrome in circular DNA of *Isospora* (*Toxoplasma*) *gondii*, lxvi

PARKER, B. N. J. *See* GREGORY, M. W.
PARTONO, F. *See* MAIZELS, R. M.
PASCOE, E. W. and BEHNKE, J. M. Cellular immunity to *Nematospiroides dubius*: adoptive transfer of fractionated immune cells, xiv
PAX, R. A. *See* DEPENBUSCH, J. W.
PEARCE, E. J. and MCLAREN, DIANE J. Reappraisal of the guinea-pig as an experimental host for studies of schistosomiasis mansoni, 455
PEARCE, E. J. and MCLAREN, DIANE J. *Schistosoma mansoni*: *in vivo* and *in vitro* studies of immunity using the guinea-pig model, 465
PHILIPP, M., BELTRAN-HERNANDEZ, F., CLARK, N. W. T., DAVIES, M. W., GOMEZ-PRIEGO, A., OGILVIE, BRIDGET M. and PARKHOUSE, R. M. E. *Onchocerca volvulus*: biochemical characterization of the principal antigen of surface radio-iodinated adult worms; a reagent for epidemiological studies, liv
PHILLIPS, A. and ARME, C. *Hymenolepis diminuta*: transport of monosaccharides by cysticercoids, lxiii
PIKE, A. W. and BURT, M. D. B. The tissue response of Yellow Perch, *Perca flavescens* Mitchill to infections with the metacercarial cyst of *Apophallus brevis* Ransom, 1920, 393
PIKE, A. W., THOMPSON, A. B. and BURT, M. D. B. The distribution of *Apophallus brevis* metacercariae in the yellow perch *Perca flavescens*, xxix
PONNUDURAI, T., LENSEN, A. H. W. and MEUWISSEN, J. H. E. TH. An automated large-scale culture system of *Plasmodium falciparum* using tangential flow filtration for medium change, 439
POOL, D. E. A scanning electron microscope study of *Bothriocephalus* from carp, xxxii
POYNTON, S. L. and BENNETT, C. E. Epidemiology and transmission of parasitic infection in wild and cultured brown trout (*Salmo trutta* L.) and rainbow trout (*Salmo gairdneri* Richardson) from the River Itchen, Hampshire, vii
PRESTON, C. M. and JENKINS, T. Oogenesis and egg-shell formation in a trichuroid nematode, *Trichuris muris*, lix
PRICE, M. A. Energy level and allocation changes in *Thais* (*Nucella*) *lapillus* infested with *Parorchis acanthus*, xlviii
PRITCHARD, D. I., ALI, N. M. H. and BEHNKE, J. M. Evasion of host immunity by *Nematospiroides dubius*. II. The generation of suppressor cells by parasite antigens, xiii
PUPKISS, M. F. and COOMBS, G. H. Proteinases of *Leishmania mexicana*: purification and characterization, xl

RAMASAMY, P. and RAMALINGAM, K. Niche biology of gill parasites (Monogenea, Copepoda) on teleosts (Scomberoides spp.), xii
RANGACHARI, K. *See* DLUZEWSKI, A. R.
RAPSON, E. B. and JENKINS, D. C. *Trichostrongylus colubriformis*, *in vitro*: a novel screen for anthelmintics, xxvii
RAPSON, E. B. and WATTS, S. D. M. *Nippostrongylus brasiliensis*: chemotherapy and the 'biochemical holdfast', ix
RASHEED, A. R. A. M. *Diplozoon homoion* Bychowsky & Nagibina, 1959 on the roach *Rutilus rutilus* (L.) of Llyn Tegid, Wales, xxx
RAWLINSON, E. M. and NOWELL, F. Effect of *Eimeria falciformis* and *Eimeria vermiformis* on weight gain in infected mice (*Mus musculus*), xxvi

REES, A. T. and HITCHEN, J. M. The genetics of malathion resistance in the yellow fever mosquito *Aedes aegypti*, lxvii

REES, F. GWENDOLEN. The ultrastructure of the fore-gut of the redia of *Parorchis acanthus* Nicoll (Digenea: Philophthalmidae) from the digestive gland of *Nucella lapillus* L., 151

REES, F. GWENDOLEN. The ultrastructure of the intestine of the redia of *Parorchis acanthus* Nicoll (Digenea: Philophthalmidae) from the digestive gland of *Nucella lapillus* L., 159

RICHARDS, K. SYLVIA. Junctional complexes in the cysticercoid of *Hymenolepis diminuta*, xxxiv

RICHARDS, K. SYLVIA and ARME, C. Junctional complexes in the inner cyst tissue of the cysticercoid of *Hymenolepis diminuta* (Cestoda), 295

RICHARDS, K. SYLVIA, ARME, C. and BRIDGES, JANINE F. Autophagy and storage lysosomes in the cyst of *Echinococcus granulosus equinus*, 1

ROBERTS, J. E. Studies on the development of the female reproductive system in *Schistosoma mansoni*, lviii

ROBINSON, M. and BEHNKE, J. M. Preliminary studies on the genetic control of immunity to *Nematospiroides dubius* in mice immunized by a 9-day abbreviated infection, xiv

ROBINSON, R. D. and HALTON, D. W. Comparative studies on surface morphology in *Corrigia vitta* and *Dicrocoelium dentriticum* (Trematoda: Dicrocoeliidae), lviii

RODGERS, D. *See* WOO, P. T. K.

ROLLINSON, D., ROSS, G. C. and HOWARD, G. W. Enzyme variation in natural populations of *Schistosoma leiperi*, xxx

ROSS, A. M. *See* DAVIES, MARY J.

ROTHER, U. *See* RUPPEL, A.

RUITENBERG, E. J., BUYS, J., WEVER, R. and ELGERSMA, A. The myeloperoxidase system is more efficient than the eosinophil peroxidase system in killing *Trichinella spiralis* newborn larvae *in vitro*, xliv

RUMJANEK, F. D. Human serum induces the expression of surface proteins in *Schistosoma mansoni*: a receptor for lipoproteins?, iii

RUPPEL, A. Deposition of complement (C3b) on schistosomula of *Schistosoma mansoni* is less effective *in vivo* than *in vitro*, lxvii

RUPPEL, A., ROTHER, U., VONGERICHTEN, H. and DIESFELD, H. J. *Schistosoma mansoni*: complement activation in human and rodent sera by living parasites of various developmental stages, 75

RUSSELL, D. G. Host cell invasion by Apicomplexa: an expression of the parasite's contractile system?, 199

SCHALL, J. J. Lizard malaria: cost to vertebrate host's reproductive success, 1

SCHMATZ, D. M., BOLTZ, R. C. and MURRAY, P. K. *Trypanosoma cruzi*: separation of broad and slender trypomastigotes using a continuous hypaque gradient, 219

SHIRLEY, M. W. Biology of precocious (and attenuated) line of *Eimeria necatrix*, viii

SHIRLEY, M. W., JEFFERS, T. K. and LONG, P. L. Studies to determine the taxonomic status of *Eimeria mitis*, Tyzzer 1929 and *E. mivati*, Edgar and Seibold 1964, 185

SHIWAKU, K., HIRAI, K., TORII, M. and TSUBOI, T. Effects of *Spirometra erinacei* plerocercoids on the growth of Snell dwarf mice, 447

SMITH, G. and GRENFELL, B. T. The epidemiology and control of ostertagiasis in first-year grazing calves, xlii

SMITH, M. A. and CLEGG, J. A. Monoclonal antibodies against *Schistosoma mansoni*, xix

SMITH, T. S. and HERBERT, I. V. The serodiagnosis of *Sarcocystis ovicanis* infection in sheep, xvii

SMITH, W. J. *See* MOLYNEUX, D. H.

SOULSBY, E. J. L. and LLOYD, S. Effect of benzimidazole-carbonate anthelmintics on *Toxocara canis in* dogs, xlvi

SOUTHGATE, V. R., WRIGHT, C. A. and LAAZIRI, H. M. Snail hosts of *Schistosoma* in Morocco, xxxvi

STABLES, J. N. The epidemiology of *Diplostomum spathaceum* in three-spined sticklebacks (Gasterosteus aculeatus) and rainbow trout (*Salmo gairdneri*) from North East Scotland, vi

STOKES, R. W. The production of superoxide by macrophages in response to infection with *Leishmania mexicana*, lxxiv

SUTANTO, I., MAIZELS, R. M. and DENHAM, D. A. Monoclonal antibodies raised against adult *Brugia pahangi*, xx

TAYLOR, D. W., CORDINGLEY, J. S. and BUTTERWORTH, A. E. Antigen gene products of *Schistosoma mansoni* identified by mRNA *in vitro* translation and immunoprecipitation, ii
TETLEY, L., COOMBS, G. H. and VICKERMAN, K. β-Hydroxysterol distribution in trypanosomatid surface membranes as determined by freeze-fracture cytochemistry, xxv
TETLEY, L., COOMBS, G. H. and VICKERMAN, K. The distribution of cell organelles in *Leishmania* amastigotes as shown by three-dimensional reconstruction, xxxvi
THOMPSON, A. B. Interactions between the common eider, the shore crab and the acanthocephalan *Profilicollis botulus*, xlvii
THOMPSON, D. P. *See* DEPENBUSCH, J. W.
THOMPSON, S. N. The nutritional physiology of *Trichoplusia ni* parasitized by the insect parasite, *Hyposoter exiguae*, and the effects of parallel-feeding, 15
TINSLEY, R. C. Ecological and phylogenetic specificity amongst polystomatid monogeneans, xi
TITCHENER, R. N. and SMITH, H. V. Scanning electron micrographs of ectoparasites, xxxii
TORII, M. *See* SHIWAKU, K.
TOWNSON, S. and BIANCO, A. E. *Onchocerca lienalis* microfilariae in inbred CBA mice: a model to study resistance to infection and mechanisms of immunity, xix
TRUDGETT, A. G., ROBINSON, A. and HANNA, R. E. B. Immunological responses in cattle, sheep, rats and mice to the tegumental antigens of *Fasciola hepatica* studied using an ELISA, lxix
TSUBOI, T. *See* SHIWAKU, K.
TURNER, C. M. R. *Babesia microti*: two strains in three hosts, xxxi
TURNER, C. M. R. Interspecific interactions between blood parasites in rodents: a field study, xlviii

UGLEM, G. L., DUPRE, R. K. and HARLEY, J. P. Allosteric control of pyrimidine transport in *Hymenolepis diminuta*: an unusual kinetic isotope effect, 289

VONGERICHTEN, H. *See* RUPPEL, A.

WALKER, R. W. and BARRETT, J. Mitochondrial adenosine triphosphatase activity and temperature adaptation in *Schistocephalus solidus* (Cestoda: Pseudophyllidea), 307
WALTERS, D. E. *See* KEYMER, ANNE.
WANSTALL, S. T., THOMAS, J. S. and ROBOTHAM, P. W. J. Fine structure of the praesoma of *Pomphorhynchus laevis*, xxxiii
WATTS, S. D. M. and ATKINS, A. M. 4-Aminobutyrate: 2 oxoglutarate aminotransferase activity in *Nippostrongylus brasiliensis*, lxiii
WEATHERLEY, A. J. and HAMILTON, J. M. The pathogenesis of pulmonary arterial lesions caused by the female lungworm *Aelurostrongylus abstrusus*, iv
WEBBE, G. *See* MALONEY, N. A.
WEDRYCHOWICZ, H., MACLEAN, J. M. and HOLMES, P. H. Antibodies in the intestinal secretions and faeces of rats infected with *Nippostrongylus brasiliensis*, x
WEHNERT, S. D. *See* WOO, P. T. K.
WHARTON, D. A. and BARRETT, J. Ultrastructural changes associated with anabiosis in *Ditylenchis dipsaci* (Nematoda), xxiv
WHITTEN, L. K. *See* CARROLL, S. M.
WILSON, R. A. *See* LAWSON, J. RUTH.
WILSON, R. J. M. *See* DLUZEWSKI, A. R.
WIGGLESWORTH, K. P. and REES, H. H. Ecdysteroids in adult female and developing eggs of *Boophilus microplus*, lxviii
WILLIAMS, G. T. Inhibitors of ADP-ribosyl transferase specifically block the differentiation of *Trypanosoma cruzi*, xli
WILLIS, J. M. and HERBERT, I. V. Some attempts to grow the strobilate stage of *Taenia multiceps in vitro*, lxxii
WILSON, G. G. A dosing technique and the effects of sub-lethal doses of *Nosema fumiferanae* (Microsporida) on its host the spruce budworm, *Choristoneura fumiferana*, 371

WILSON, R. A. *See* MASTIN, AVIS J.
WINCHELL, E. J., LING, I. T. and WILSON, R. J. M. Characterization of heat-stable, strain-specific antigens of *Plasmodium falciparum*, xxxvii
WISHER, M. H. Characterization of the antigens of *Eimeria* species, viii
WOO, P. T. K., WEHNERT, S. D. and RODGERS, D. The susceptibility of fishes to haemoflagellates at different ambient temperatures, 385
WRIGHT, J. P. and BALFOUR, A. H. Monoclonal antibodies to *Toxoplasma gondii*, lxvi

YANAGISAWA, TOSHIO. *See* MAKI, JUN.

Index of Subjects

Acquired resistance, in mice infected with *Giardia muris*, 517
Ageing, correlation of with infectivity of the cercariae of *Schistosoma mansoni*, 481
Amblyospora, sporulation of in female *Culex salinarius*, 377
Ancylostoma caninum, endotube–brush border complexes dissected from the intestine of, 129
Ancylostoma ceylanicum, in outbred, inbred and immunocompromised mice, 229
Angiostrongylus cantonensis, the effects of thiabendazole and flubendazole on the larvae of, 525
Anthelmintic effect, of an alcoholic extract of Ma-Klua, 103
Antigens, cross-reactions of on the surface of *Brugia* spp., 249
Apicomplexa, host cell invasion by, 199
Apophallus brevis, tissue response to the cyst of, 393
Attrition, of irradiated and challenge schistosomula of *Schistosoma mansoni*, 87
Avian trypanosome infections, pathological changes induced by, 49

Brugia pahangi, the mode of action of suramin on, 29
the moulting process and intermoult growth of, 493
Brugia spp., cross-reactive surface antigens of, 249

Canaries, pathological changes in, induced by *Trypanosoma bouffardi* infection, 49
Cellular response, of fish hosts following infection with *Ligula intestinalis*, 139
Choristoneura fumiferana, a dosing technique for, 371
Coccidial infections, epidemiology of in sheep, 421
Complement, activation of by various developmental stages of *Schistosoma mansoni*, 75
Continuous hypaque gradient, a new method for separation of *T. cruzi* trypomastigotes, 219
Culex salinarius, induction of sporulation of *Amblyospora* in, 377
Culture system, large-scale automation using tangential flow filtration, 439
Cyclocoelum oculeum, migration, growth and development of in coots, 239
Cysticercoid, junction complexes in the inner cyst tissue of, 295

Development, of *Cyclocoelum oculeum* in coots, 239
Dietary fructose, effects of on parasite population biology, 265
Diphyllobothrium erinacei, the effects of thiabendazole and flubendazole on the larvae of, 525
Dosing technique, for dosing spruce budworm with *Nosema fumiferanae*, 371
Echinoparyphium recurvatum, transmission dynamics of the cercariae of, 167
Egg output, effects of Ma-Klua extract on in *Hymenolepis nana*, 103
Eimeria acervulina, the invasive behaviour of, 199
Eimeria mitis, studies on the taxonomic status of, 185
Eimeria mivati, studies on the taxonomic status of, 185
Eimeria tenella, the invasive behaviour of, 199
Endotube–brush border complexes, dissected from the intestines of *H. contortus* and *A. caninum*, 129
Enzymes, responsible for purine salvage in haemoflagellates, 211
Epidemiology, of ovine coccidia, 421
Erythrocyte ghosts, malarial invasion of, 429

Flubendazole, the effect of on larval helminths, 525
Fore-gut, ultrastructure of in the redia of *Parorchis acanthus*, 151

Genetic control, of liability of mice to infection with *Nematospiroides dubius*, 113
Gen.nov., *Oögyrodactylus farlowellae*, morphology and life-cycle of, 405
Giardia muris, acquired resistance to in mice infected with, 517
immunodepression in mice infected with, 507
Growth hormone, possible secretion of by the plerocercoids of *Spirometra erinacei*, 447
Guinea-pig, as an experimental host for *Schistosoma mansoni*, 455
studies of immunity in following sensitization with *Schistosoma mansoni*, 465

Haemoflagellates, susceptibility of various fishes to, 385
Haemonchus contortus, endotube–brush border complexes dissected from the intestine of, 129
Host nutrition, effects of on the nutritional physiology of *Trichoplusia ni* parasitized by *Hyposoter exiguae*, 15
Host–parasite relationship, basic parameters of for *Schistosoma mansoni* in guinea-pigs, 455
of *Schistosoma japonicum* in mice, 327
20-Hydroxyecdysone, induction of sporulation by in *Amblyospora*, 377
Hymenolepis diminuta, junctional complexes in the cyst tissue of the cysticercoid of, 295
pyrimidine transport in, 289
Hymenolepis nana, effects of alcoholic extracts of Ma-Klua on, 103
effects of thiabendazole and flubendazole on the larvae of, 525

Immune response, of mice to *Ancylostoma ceylanicum*, 229
Immunity, *in vivo* and *in vitro* parameters of in guinea-pigs sensitized with *Schistosoma mansoni*, 465
Immunodepression, induced in mice infected with *Giardia muris* and *Spironucleus muris*, 507
Infection, course of after oral and parenteral administration of *Ancylostoma ceylanicum* in mice, 229
Infection dynamics, of the cercariae of *Echinoparyphium recurvatum*, 167
Infectivity, correlation of with ageing of the cercariae of *Schistosoma mansoni*, 481
Intermoult growth, in *Brugia pahangi*, 493
Intestinal epithelium, ultrastructural changes of, in suramin-treated *Brugia pahangi*, 29
Intestine, ultrastructure of in the redia of *Parorchis acanthus*, 159
Invasion, of red cell ghosts by malaria parasites, 429
the role of the parasite's contractile system in, 199

Junctional complexes, in the inner cyst tissue of the cysticercoid of *Hymenolepis diminuta*, 295

Leishmania mexicana, purine salvage enzymes of, 211
Leishmania spp., susceptibility of rodents to, 7
Life-cycle, of *Oögyrodactylus farlowellae* gen. et sp.nov., 405
Life-histories, a comparative study of in mammalian schistosomes, 343
Ligula intestinalis, cellular response of fish hosts following infection with, 139
Lizard malaria, effect of on host's reproductive success, 1

Ma-Klua, effects of an alcoholic extract from on *Hymenolepis nana*, 103
Malaria, effect of on reproductive output of lizard host, 1
Metacercarial cyst, tissue response to, 393
Metacestodes, infection of rats by, 279
Mesocestoides corti, infection of rats with the metacestodes of, 279
Migration, of *Cyclocoelum oculeum* in coots, 239
of irradiated and challenge schistosomula of *Schistosoma mansoni*, 87
Mitochondrial ATPase, the role of in temperature adaptation by *Schistocephalus solidus*, 307
Monensin, use of to study epidemiology of ovine coccidia, 421
Moniliformis dubius, effects of host-dietary fructose on, 265
Morphology, of *Oögyrodactylus farlowellae* gen. et sp.nov., 405
of *Unikaryon slaptonleyi* sp.nov., 175
Moulting, a description of the process of in *Brugia pahangi*, 493
Muscle, effect of tegument removal on the function of in *Schistosoma mansoni*, 61

Nematospiroides dubius, genetic control of liability to infection with in mice, 113
selection responses in mice, 113
New method, for the separation of *T. cruzi* trypomastigotes into broad and slender forms, 219
New species, *Unikaryon slaptonleyi*, 175
New World leishmania, susceptibility of rodents to, 7
Nosema fumiferanae, sub-lethal effects of on its host, the spruce budworm, 371
Nutritional physiology, of *Trichoplusia ni* parasitized by *Hyposoter exiguae*, 15

Oocyst output, correlation of with clinical state and growth rate in lambs, 421
Oögyrodactylus farlowellae, gen. et sp.nov., 405

Parorchis acanthus, ultrastructure of the redial fore-gut of, 151
ultrastructure of the redial intestine of, 159
Pathogenicity, of *Unikaryon slaptonleyi* sp.nov., 175
Pathological changes, in canaries infected with *Trypanosoma bouffardi*, 49
Perca flavescens, the tissue response of to infections with *Apophallus brevis*, 393
Plasmodium falciparum, an automated large-scale culture system of, 439
Plasmodium spp., susceptibility of red cells ghosts to invasion by, 429
Plerocercoids, growth-promoting effects of in mice, 447
Population biology, effect of host-dietary fructose on in *Moniliformis dubius*, 265
Pre-acetabular penetration gland cells, of the cercariae of *Schistosoma mansoni*, 55
Purine salvage, enzymes responsible for in haemoflagellates, 211
Pyrimidine transport, allosteric control of in *Hymenolepis diminuta*, 289

Red cell ghosts, malarial invasion of, 429
Reproductive output, effect of malarial infection on in lizards, 1
Resistance, of mice to infection with *Giardia muris*, 517

Schistocephalus solidus, temperature adaptation in, 307
Schistosoma japonicum, the host–parasite relationship of in mice, 327
Schistosoma mansoni, ability of various developmental stages of to activate complement, 75
attrition of irradiated and challenge schistosomula of, 87
correlation between ageing and infectivity of the cercariae of, 481
effect on tegument disruption on longitudinal muscle function in, 61
sensitization of guinea-pigs with, 465
studies using the guinea-pig as an experimental host, 455
the pre-acetabular penetration gland cells of the cercariae of, 55
Schistosomes, ability of to activate complement in sera of various species, 75
a comparative study of the life-histories of in mammals, 343
Secretory bodies, ultrastructural studies of in the gland cells of *Schistosoma mansoni* cercariae, 56
Snell dwarf mice, effect of the plerocercoids of *Spirometra erinacei* on the growth of, 447
Spirometra erinacei, effects of the plerocercoids of on the growth of Snell dwarf mice, 447
Sp.nov., *Oögyrodactylus farlowellae*, morphology and life-cycle of, 405
Sporulation, induction of in *Amblyospora*, 377
Spironucleus muris, immunodepression in mice infected with, 507
Spruce budworm, a technique for dosing with *Nosema fumiferanae*, 371
Suramin, mode of action of on *Brugia pahangi*, 29
Surface antigens, cross-reactivity of in *Brugia* spp., 249
Susceptibility, of rodents to New World leishmania, 7
of various fishes to haemoflagellates, 385

Taenia crassiceps, infection of rats with the metacestodes of, 279
Tangential flow filtration, use of for large-scale culture medium change, 439
Taxonomic status, of *Eimeria mitis* and *E. mivati*, 185
Tegument, effect of removal of on longitudinal muscle function in *Schistosoma mansoni*, 61
Temperature adaptation, in *Schistocephalus solidus*, 307
Temperature, effect of on the susceptibility of various fishes to haemoflagellates, 385
Thiabendazole, the effect of on larval helminths, 525
Tissue response, to the metacercarial cyst of *Apophallus brevis*, 393
Transmission dynamics, of the cercariae of *Echinoparyphium recurvatum*, 167
Transmission, of *Unikaryon slaptonleyi* sp.nov., 175
Trichinella spiralis, the effects of thiabendazole and flubendazole on the larvae of, 525
Trichoplusia ni, a study of nutritional physiology in, 15
Trypanosoma bouffardi, experimental infection of canaries with, 49
Trypanosoma cruzi, separation of the broad and slender trypomastigotes of, 219

Trypanosoma **spp., purine salvage enzymes of, 211**
Trypomastigotes, separation of broad and slender forms of, 219

Ultrastructural changes, in the intestinal epithelium of suramin-treated *Brugia pahangi*, 29
Ultrastructural studies, on the cellular response of fish hosts to infection with *Ligula intestinalis*, 139
Ultrastructure, of the fore-gut of the redia of *Parorchis acanthus*, 151
of the intestine of the redia of *Parorchis acanthus*, 151
of the pre-acetabular penetration gland cells of the cercariae of *Schistosoma mansoni*, 55
Unikaryon slaptonleyi **sp.nov., isolated from *Lymnaea peregra*, 175**

CONTENTS

(*All rights reserved*)

PART 1 AUGUST 1983

PAGE

SCHALL, J. J. Lizard malaria: cost to vertebrate host's reproductive success 1

NEAL, R. A. and HALE, C. A comparative study of susceptibility of inbred and outbred mouse strains compared with hamsters to infection with New World cutaneous leishmaniases 7

THOMPSON, S. N. The nutritional physiology of *Trichoplusia ni* parasitized by the insect parasite, *Hyposoter exiguae*, and the effects of parallel-feeding 15

HOWELLS, R. E., MENDIS, A. M. and BRAY, P. G. The mode of action of suramin on the filarial worm *Brugia pahangi* 29

MOLYNEUX, D. H., COOPER, J. E. and SMITH, W. J. Studies on the pathology of an avian trypanosome (*T. bouffardi*) infection in experimentally infected canaries 49

DAVIES, T. W. *Schistosoma mansoni*: the structure and elemental composition of pre-acetabular penetration gland cell secretion in pre-emergent cercariae. 55

DEPENBUSCH, J. W., THOMPSON, D. P., PAX, R. A. and BENNETT, J. L. Tegumental disruption with Triton X-100 and its effects on longitudinal muscle function in male *Schistosoma mansoni*. 61

RUPPEL, A., ROTHER, U., VONGERICHTEN, H. and DIESFELD, H. J. *Schistosoma mansoni*: complement activation in human and rodent sera by living parasites of various developmental stages 75

MASTIN, AVIS, J., BICKLE, Q. D. and WILSON, R. A. *Schistosoma mansoni*: migration and attrition of irradiated and challenge schistosomula in the mouse 87

MAKI, JUN, KONDO, ASAMI and YANAGISAWA, TOSHIO. Effects of alcoholic extract from Ma-Klua (*Diospyros mollis*) on adults and larvae of the dwarf tapeworm, *Hymenolepis nana* in mice and on the infectivity of the eggs 103

BRINDLEY, P. J. and DOBSON, C. Genetic control of liability to infection with *Nematospiroides dubius* in mice: direct and correlated responses to selection of mice for faecal parasite egg count 113

MUNN, E. A. and GREENWOOD, C. A. Endotube–brush border complexes dissected from the intestines of *Haemonchus contortus* and *Ancylostoma caninum* 129

HOOLE, D. and ARME, C. Ultrastructural studies on the cellular response of fish hosts following experimental infection with the plerocercoid of *Ligula intestinalis* (Cestoda: Pseudophyllidea) 139

REES, F. GWENDOLEN. The ultrastructure of the fore-gut of the redia of *Parorchis acanthus* Nicoll (Digenea: Philophthalmidae) from the digestive gland of *Nucella lapillus* L. 151

REES, F. GWENDOLEN. The ultrastructure of the intestine of the redia of *Parorchis acanthus* Nicoll (Digenea: Philophthalmidae) from the digestive gland of *Nucella lapillus* L. 159

EVANS, N. A. and GORDON, D. M. Experimental studies on the transmission dynamics of the cercariae of *Echinoparyphium recurvatum* (Digenea: Echinostomatidae) 167

PART 2 OCTOBER 1983

CANNING, ELIZABETH U., BARKER, ROSALIND J., HAMMOND, JILL C. and NICHOLAS, J. P. *Unikaryon slaptonleyi* sp.nov. (Microspora: Unikaryonidae) isolated from echinostome and strigeid larvae from *Lymnaea peregra*: observations on its morphology, transmission and pathogenicity 175

SHIRLEY, M. W., JEFFERS, T. K. and LONG, P. L. Studies to determine the taxonomic status of *Eimeria mitis*, Tyzzer 1929 and *E. mivati*, Edgar and Seibold 1964 185

RUSSELL, D. G. Host cell invasion by Apicomplexa: an expression of the parasite's contractile system?. 199

DAVIES, MARY J., ROSS, A. M. and GUTTERIDGE, W. E. The enzymes of purine salvage in *Trypanosoma cruzi*, *Trypanosoma brucei* and *Leishmania mexicana* 211

SCHMATZ, D. M., BOLTZ, R. C. and MURRAY, P. K. *Trypanosoma cruzi*: separation of broad and slender trypomastigotes using a continuous hypaque gradient 219

CARROLL, S. M., GROVE, D. I., DAWKINS, H. J. S., MITCHELL, G. F. and WHITTEN, L. K. Infections with a Malaysian dog strain of *Ancylostoma ceylanicum* in outbred, inbred and immunocompromised mice . . 229

MCLAUGHLIN, J. D. and MARCOGLIESE, D. The migration, growth and development of *Cyclocoelum oculeum* (Kossack, 1911) (Trematoda: Cyclocoelidae) in *Fulica americana* (Gm.) 239

MAIZELS, R. M., PARTONO, F., OEMIJATI, SRI, DENHAM, D. A. and OGILVIE, BRIDGET M. Cross-reactive surface antigens on three stages of *Brugia malayi*, *B. pahangi* and *B. timori* 249

KEYMER, ANNE, CROMPTON, D. W. T. and WALTERS, D. E. Parasite population biology and host nutrition: dietary fructose and *Moniliformis* (Acanthocephala) 265

CHERNIN, J. and MCLAREN, DIANE J. The pathology induced in laboratory rats by metacestodes of *Taenia crassiceps* and *Mesocestoides corti* (Cestoda) 279

UGLEM, G. L., DUPRE, R. K. and HARLEY, J. P. Allosteric control of pyrimidine transport in *Hymenolepis diminuta*: an unusual kinetic isotope effect 289

RICHARDS, K. SYLVIA and ARME, C. Junctional complexes in the inner cyst tissue of the cysticercoid of *Hymenolepis diminuta* (Cestoda) 295

WALKER, R. W. and BARRETT, J. Mitochondrial adenosine triphosphatase activity and temperature adaptation in *Schistocephalus solidus* (Cestoda: Pseudophyllidea) 307

MOLONEY, N. A. and WEBBE, G. The host–parasite relationship of *Schistosoma japonicum* in CBA mice 327

Trends and Perspectives

LOKER, ERIC S. A comparative study of the life-histories of mammalian schistosomes 343

PART 3 DECEMBER 1983

WILSON, G. G. A dosing technique and the effects of sub-lethal doses of *Nosema fumiferanae* (Microsporida) on its host the spruce budworm, *Choristoneura fumiferana* 371

LORD, J. C. and HALL, D. W. Sporulation of *Amblyospora* (Microspora) in female *Culex salinarius*: induction by 20-hydroxyecdysone 377

WOO, P. T. K., WEHNERT, S. D. and RODGERS, D. The susceptibility of fishes to haemoflagellates at different ambient temperatures 385

PIKE, A. W. and BURT, M. D. B. The tissue response of Yellow Perch, *Perca flavescens* Mitchill to infections with the metacercarial cyst of *Apophallus brevis* Ransom, 1920 393

HARRIS, P. D. The morphology and life-cycle of the oviparous *Oögyrodactylus farlowellae* gen. et sp.nov. (Monogenea, Gyrodactylidea). 405

GREGORY, M. W., CATCHPOLE, JANET, JOYNER, L. P. and PARKER, B. N. J. Observations on the epidemiology of coccidial infections in sheep under varying conditions of intensive husbandry including chemoprophylaxis with monensin 421

DLUZEWSKI, A. R., RANGACHARI, K., WILSON, R. J. M. and GRATZER, W. B. Properties of red cell ghost preparations susceptible to invasion by malaria parasites 429

PONNUDURAI, T., LENSEN, A. H. W. and MEUWISSEN, J. H. E. TH. An automated large-scale culture system of *Plasmodium falciparum* using tangential flow filtration for medium change 439

SHIWAKU, K., HIRAI, K., TORII, M. and TSUBOI, T. Effects of *Spirometra erinacei* plerocercoids on the growth of Snell dwarf mice 447

PEARCE, E. J. and MCLAREN, DIANE J. Reappraisal of the guinea-pig as an experimental host for studies of schistosomiasis mansoni 455

PEARCE, E. J. and MCLAREN, DIANE J. *Schistosoma mansoni*: *in vivo* and *in vitro* studies of immunity using the guinea-pig model. 465

LAWSON, J. RUTH and WILSON, R. A. The relationship between the age of *Schistosoma mansoni* cercariae and their ability to penetrate and infect the mammalian host 481

HOWELLS, R. E. and BLAINEY, L. J. The moulting process and the phenomenon of intermoult growth in the filarial nematode *Brugia pahangi* 493

BRETT, SARA J. Immunodepression in *Giardia muris* and *Spironucleus muris* infections in mice 507

BELOSEVIC, M. and FAUBERT, G. M. Temporal study of acquired resistance in infections of mice with *Giardia muris* 517

MAKI, JUN and YANAGISAWA, TOSHIO. A comparison of the effects of flubendazole and thiabendazole on the larvae of *Angiostrongylus cantonensis, Trichinella spiralis, Diphyllobothrium erinacei* and *Hymenolepis nana* in mice 525

BOOK REVIEWS 533